DOM Review

Web Pages are built upon the DOM

- Document Object Model

- Structures documents like a tree

- Every node has one parent, and possibly many children

- Nodes have properties, methods, and events

Sample Document

The DOM and JavaScript

- Page content is represented by the DOM

- Scripting languages (JavaScript) use the DOM to interact with the document

How Does It Work?

- Accessing the DOM is done with an API – Application Programming Interface

  - No matter which browser, no matter which scripting language, the API is the same

The DOM objects/elements

- ## document – the root of the page
  - document.URI, document.height, document.links, document.bgColor,….
- ## element – a node in the tree
  - Returned by a member of the API
- ## nodeList – an array (group) of elements
  - document.getElementByTagName('p') would return a set of nodes
- ## attribute
  - A node in the DOM, though rarely used that way. Another way to manipulate/change the document

Specific APIs

- document.getElementById(id)
- document.getElementsByClassName(class)
- element.innerHTML
- element.style
- element.setAttribute(attribute, value)
- element.removeAttribute(attribute)

Review

- As you learn more JavaScript, you will be able to use the APIs

- We will start slow, but the important part is to eventually feel comfortable searching for these tools

Acknowledgements/Contributions